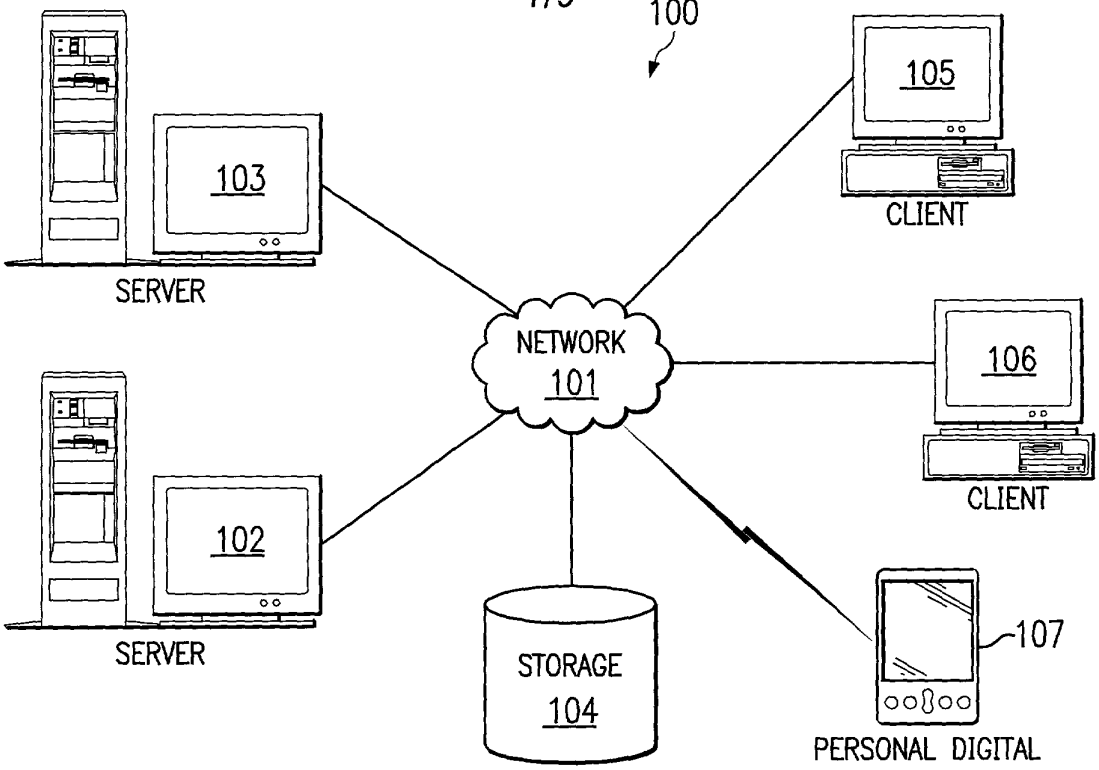

FIG. 1A
(PRIOR ART)

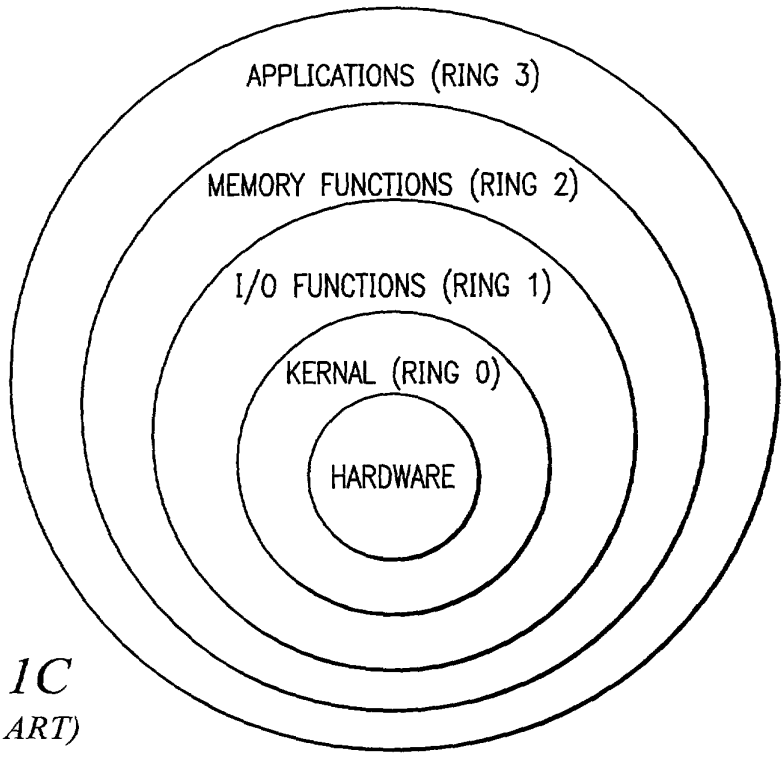

FIG. 1C
(PRIOR ART)

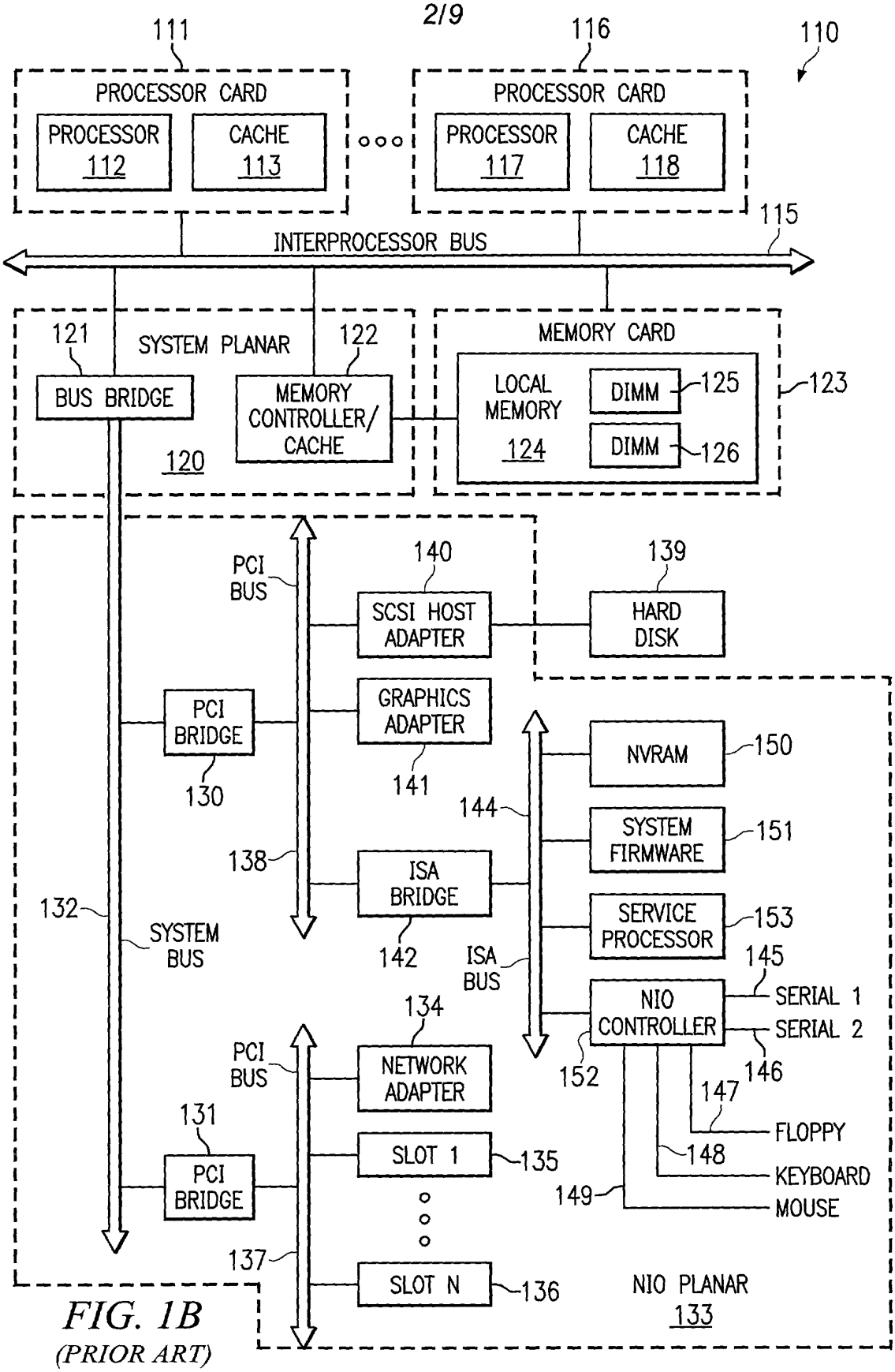

FIG. 1B
(PRIOR ART)

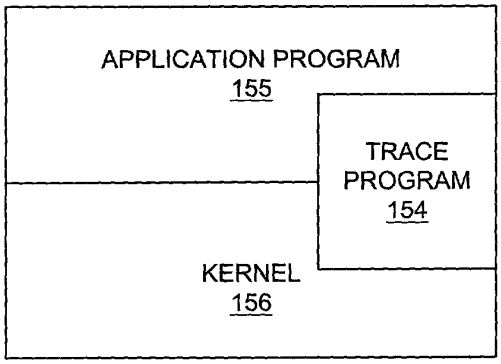

FIG. 1D
(PRIOR ART)

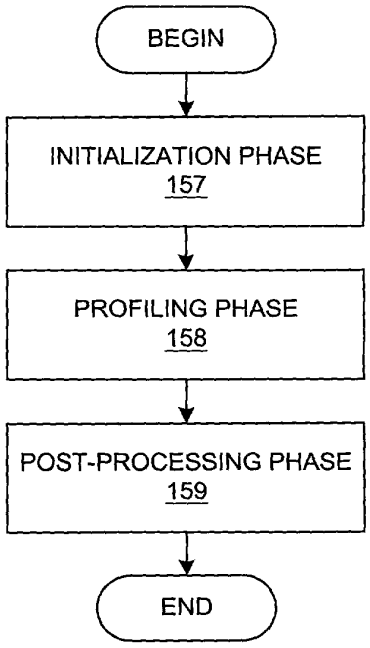

FIG. 1E
(PRIOR ART)

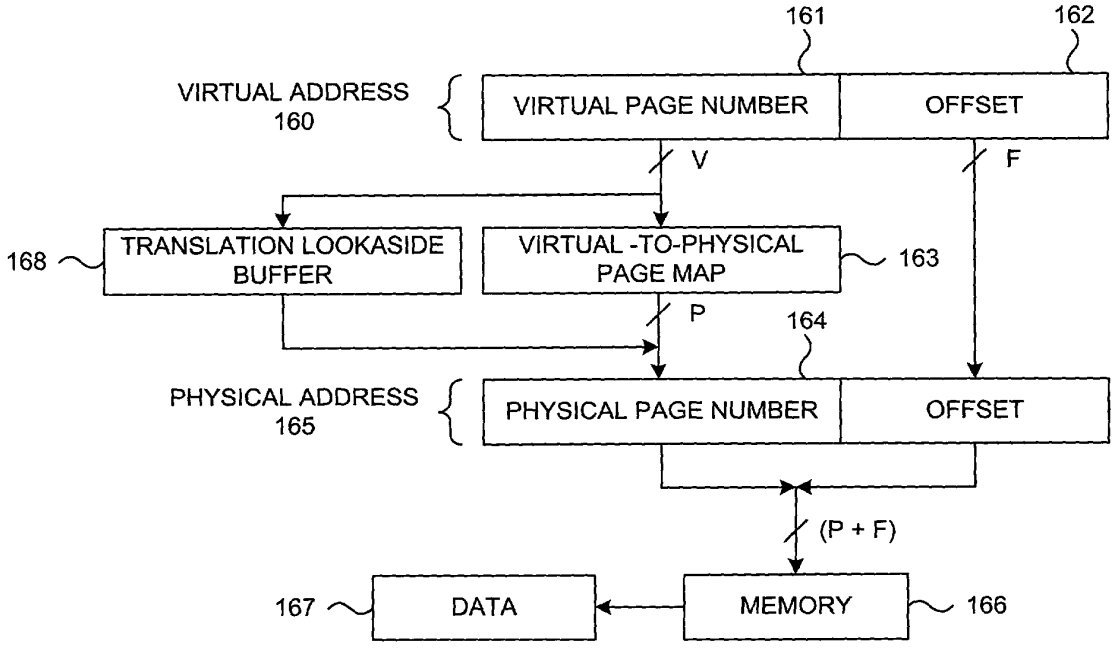

FIG. 1F
(PRIOR ART)

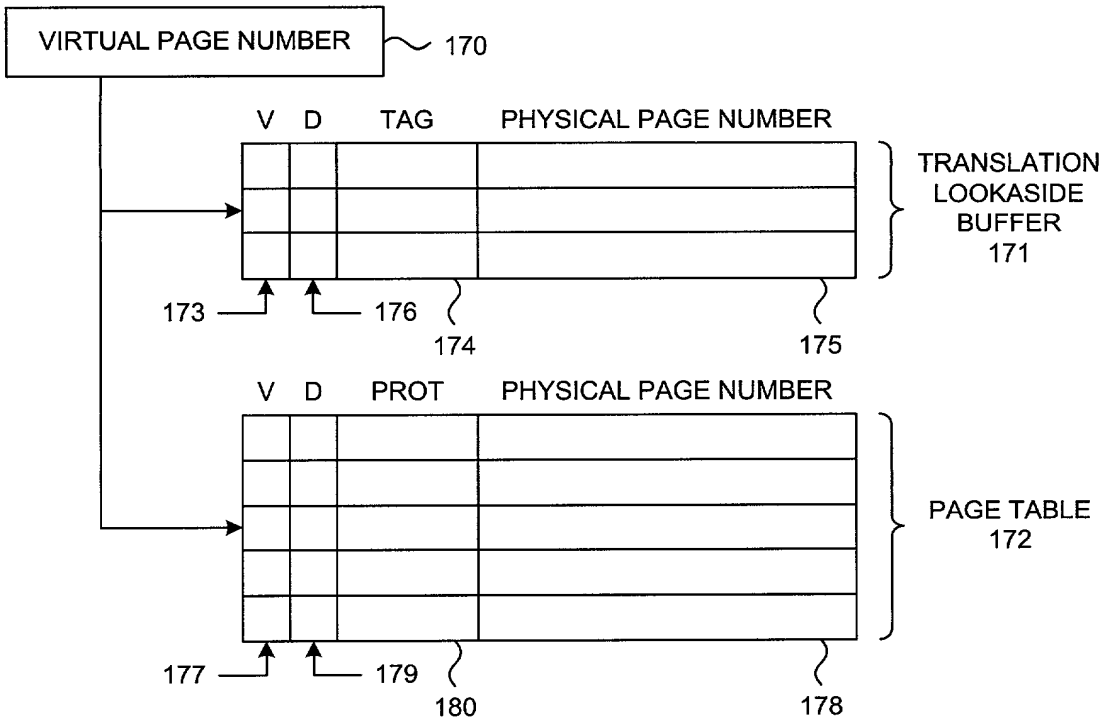

FIG. 1G
(PRIOR ART)

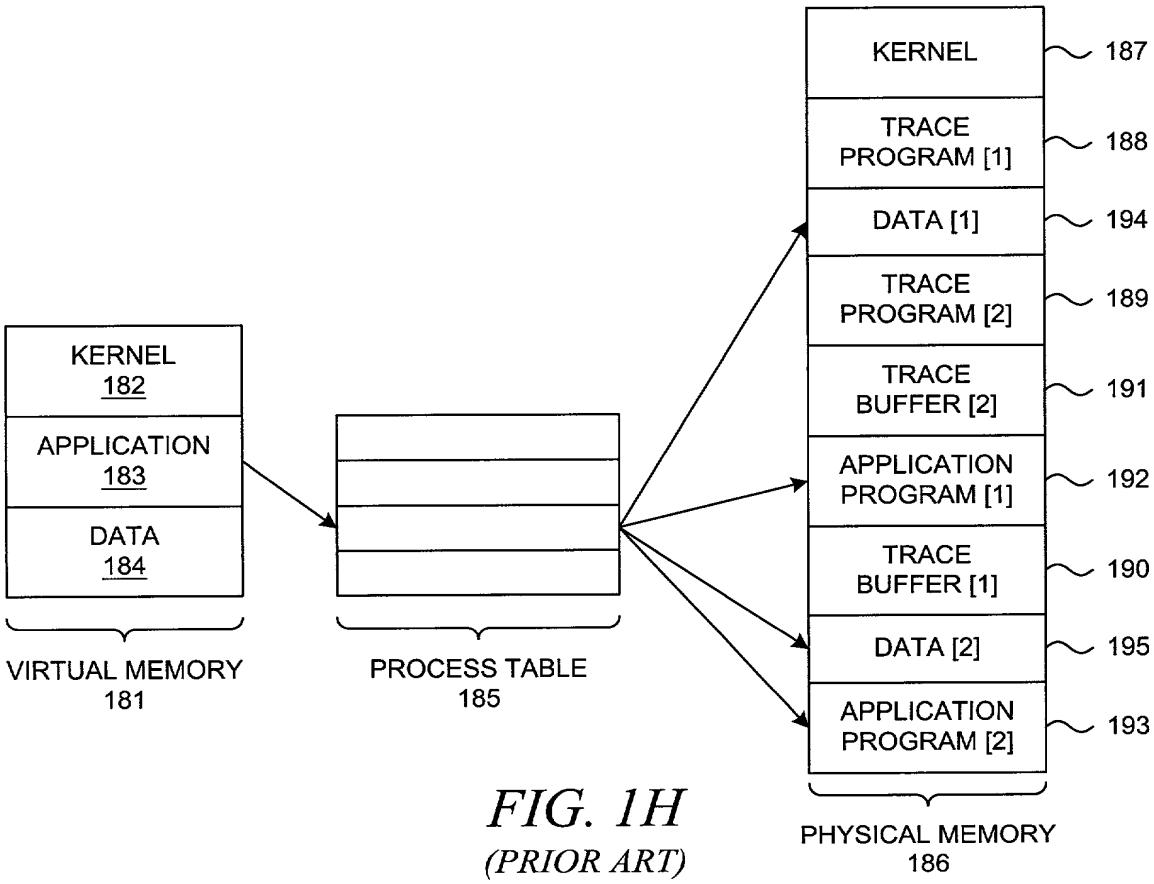

FIG. 1H
(PRIOR ART)

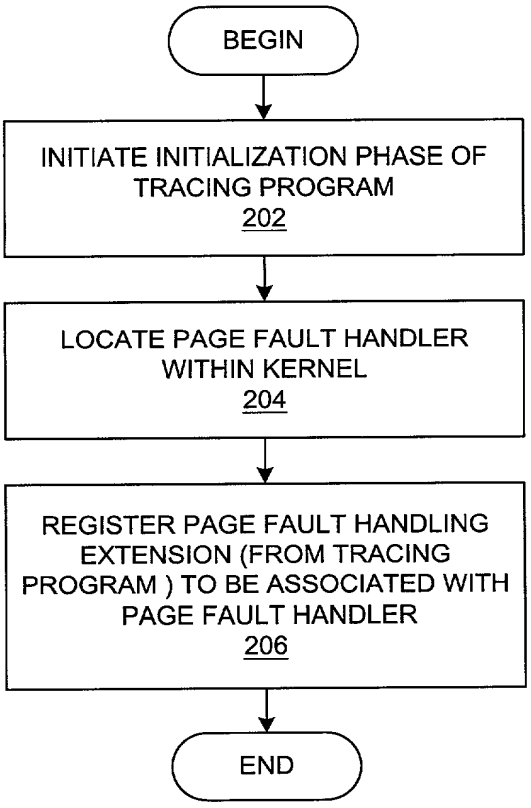

FIG. 2A

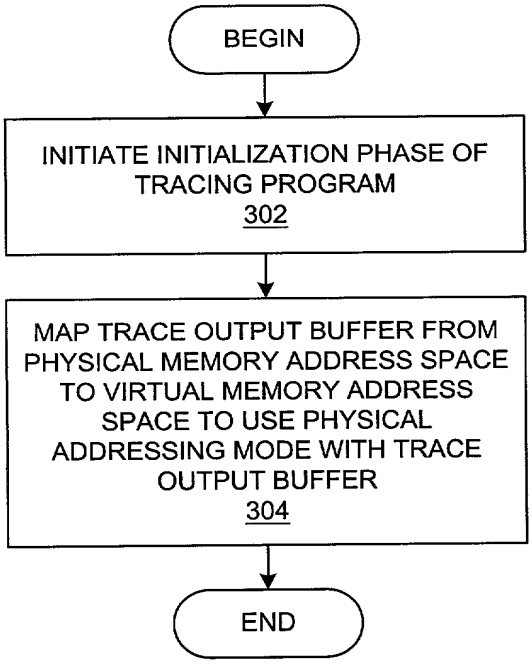

FIG. 3

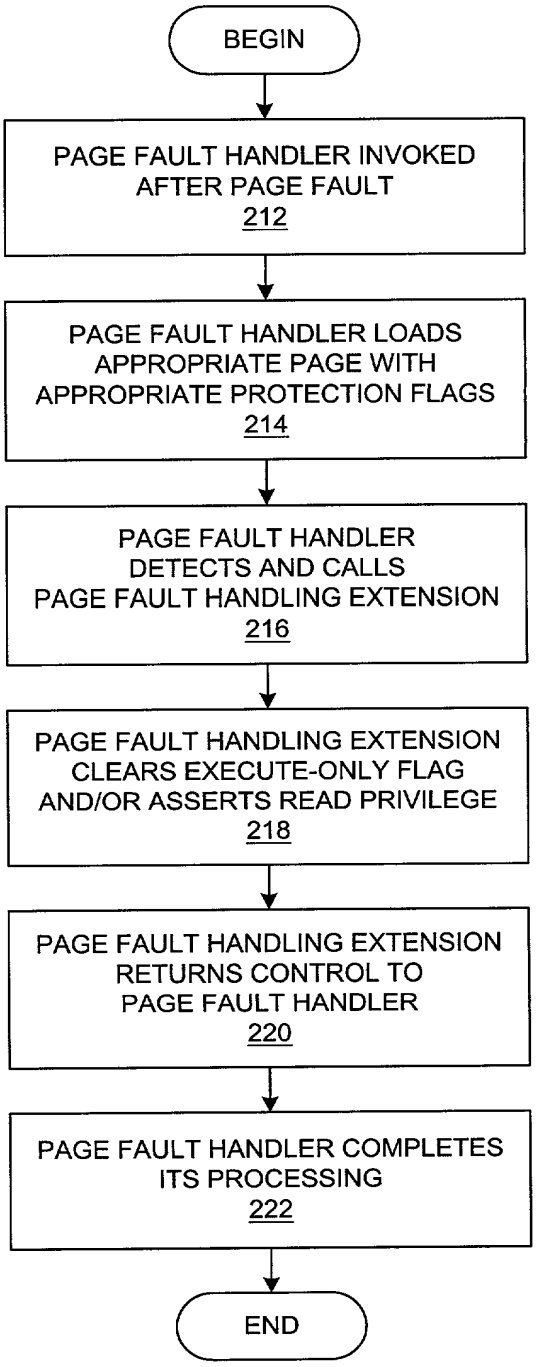

FIG. 2B

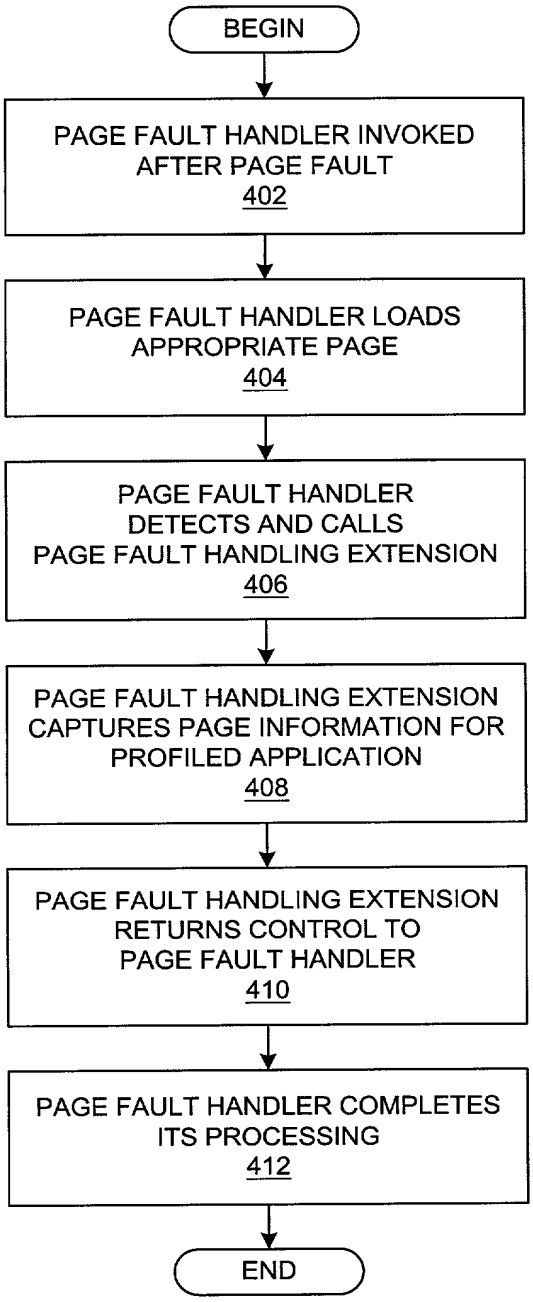

FIG. 4A

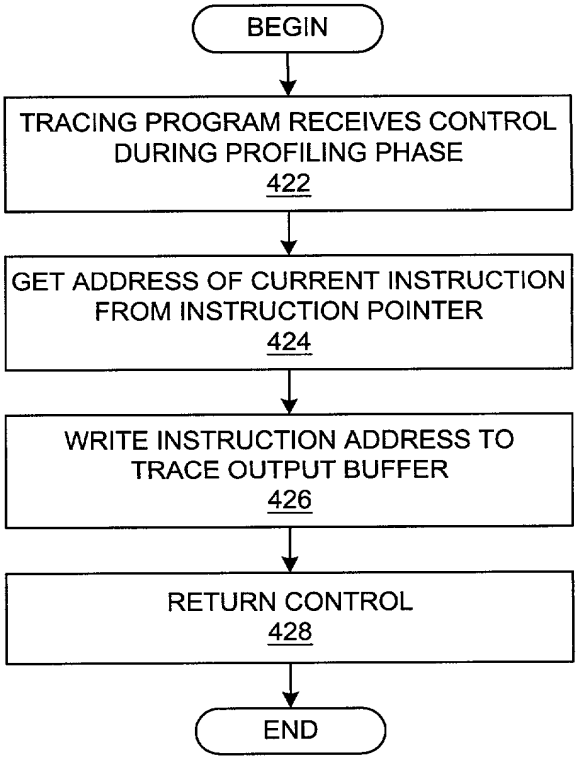

FIG. 4B

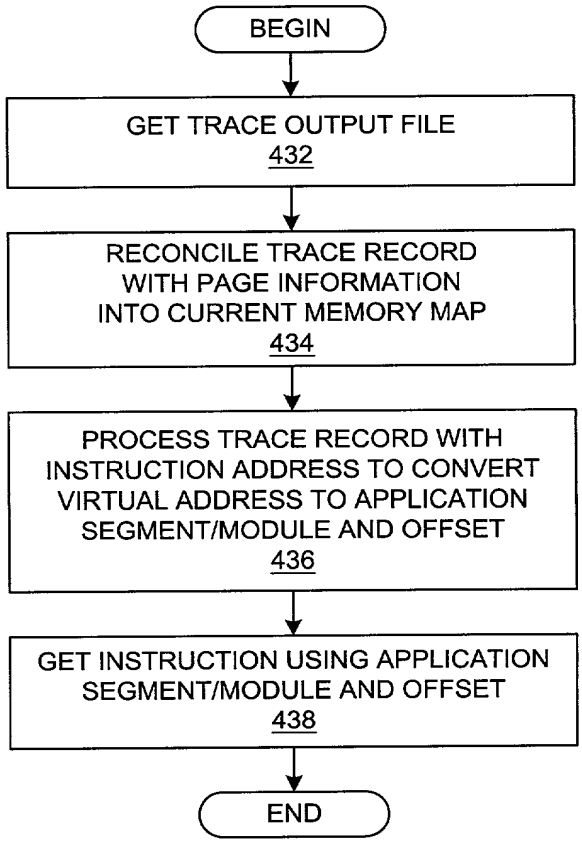

FIG. 4C

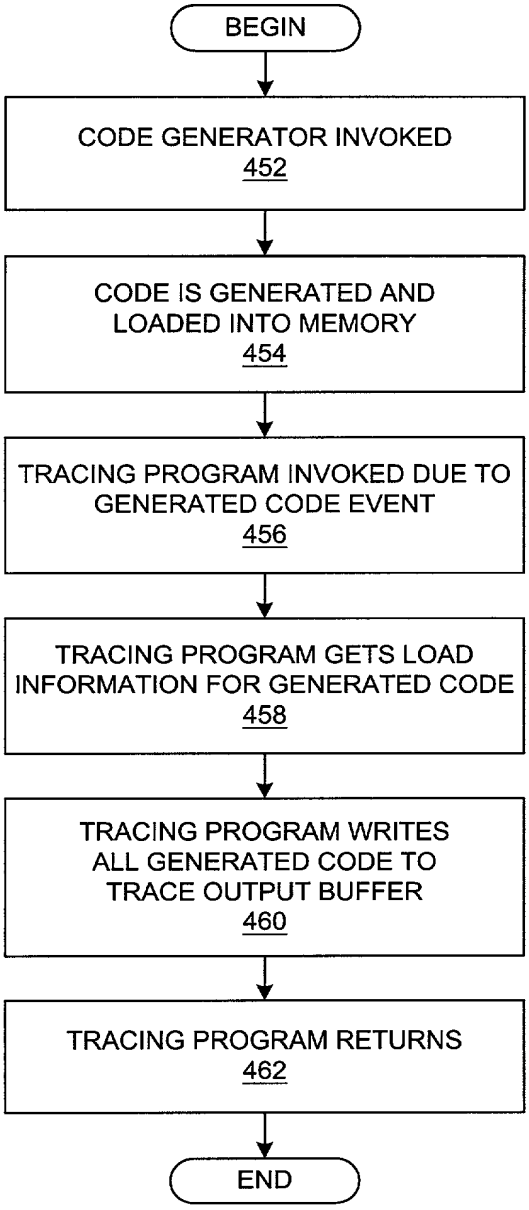
BEGIN
CODE GENERATOR INVOKED
452
CODE IS GENERATED AND LOADED INTO MEMORY
454
TRACING PROGRAM INVOKED DUE TO GENERATED CODE EVENT
456
TRACING PROGRAM GETS LOAD INFORMATION FOR GENERATED CODE
458
TRACING PROGRAM WRITES ALL GENERATED CODE TO TRACE OUTPUT BUFFER
460
TRACING PROGRAM RETURNS
462
END

FIG. 4D

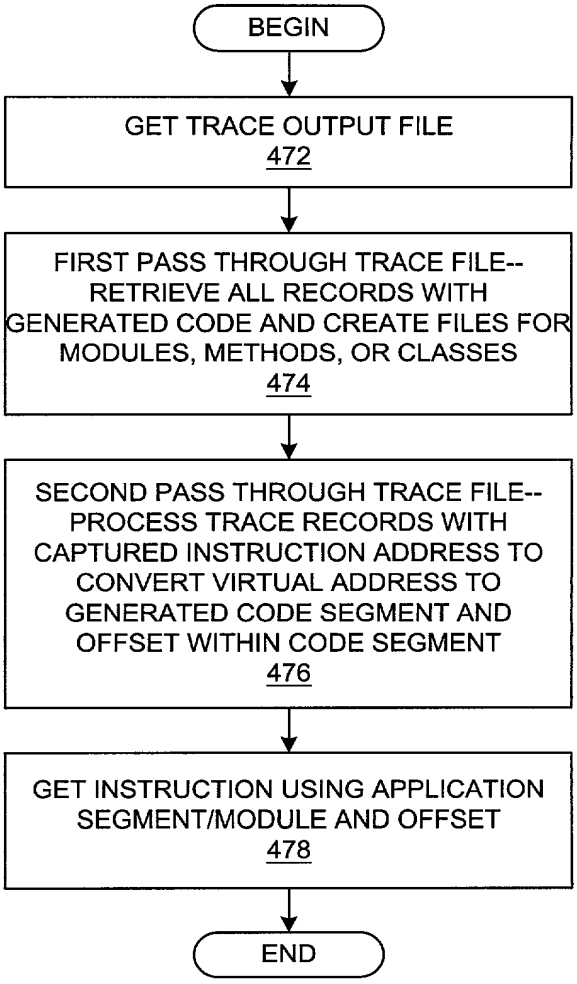
BEGIN
GET TRACE OUTPUT FILE
472
FIRST PASS THROUGH TRACE FILE-- RETRIEVE ALL RECORDS WITH GENERATED CODE AND CREATE FILES FOR MODULES, METHODS, OR CLASSES
474
SECOND PASS THROUGH TRACE FILE-- PROCESS TRACE RECORDS WITH CAPTURED INSTRUCTION ADDRESS TO CONVERT VIRTUAL ADDRESS TO GENERATED CODE SEGMENT AND OFFSET WITHIN CODE SEGMENT
476
GET INSTRUCTION USING APPLICATION SEGMENT/MODULE AND OFFSET
478
END

FIG. 4E

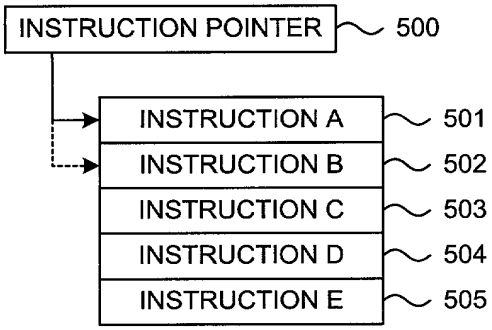

FIG. 5A

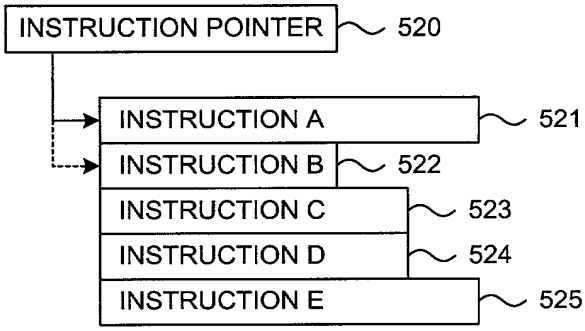

FIG. 5C

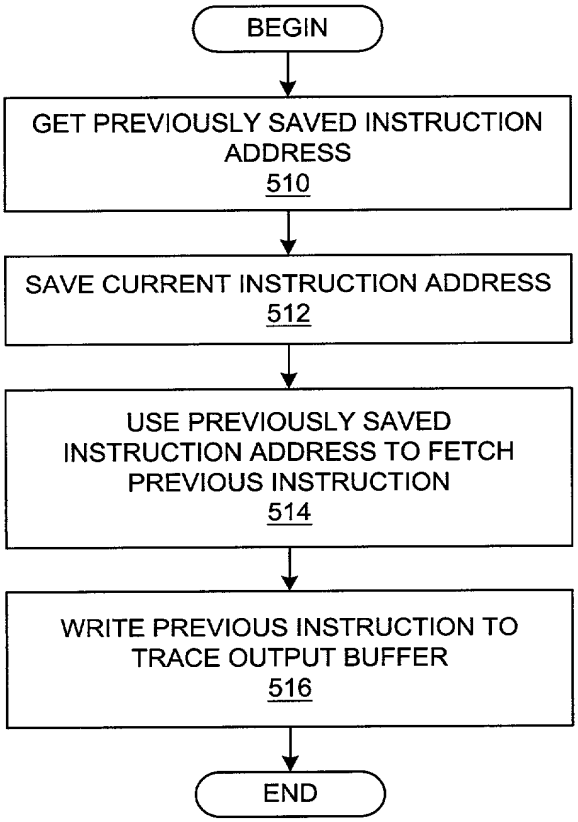

FIG. 5B

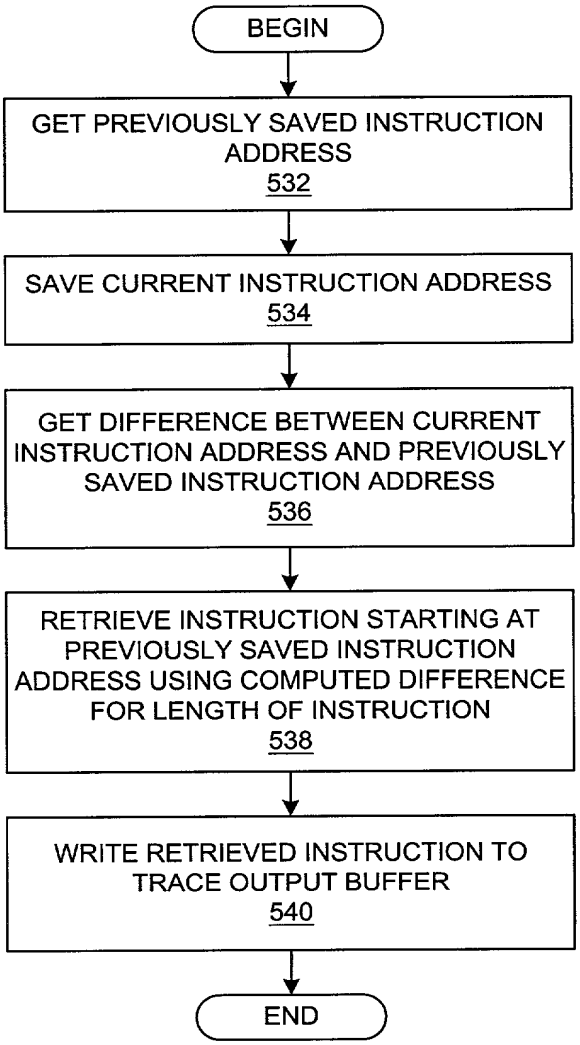

FIG. 5D

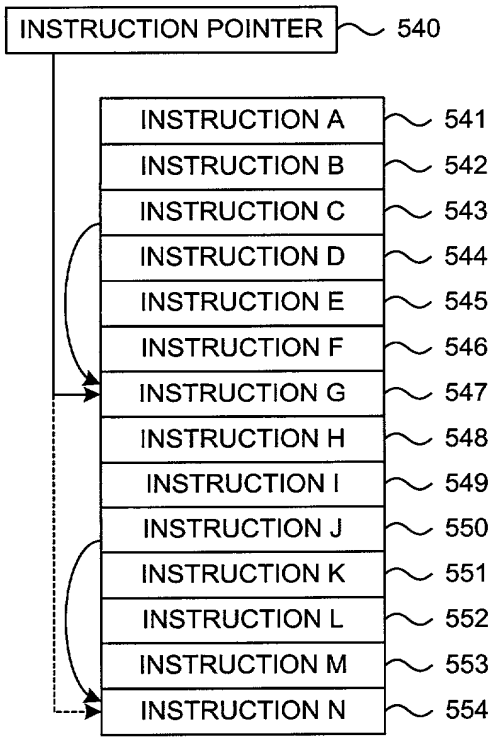
INSTRUCTION POINTER
540
INSTRUCTION A
541
INSTRUCTION B
542
INSTRUCTION C
543
INSTRUCTION D
544
INSTRUCTION E
545
INSTRUCTION F
546
INSTRUCTION G
547
INSTRUCTION H
548
INSTRUCTION I
549
INSTRUCTION J
550
INSTRUCTION K
551
INSTRUCTION L
552
INSTRUCTION M
553
INSTRUCTION N
554

FIG. 5E

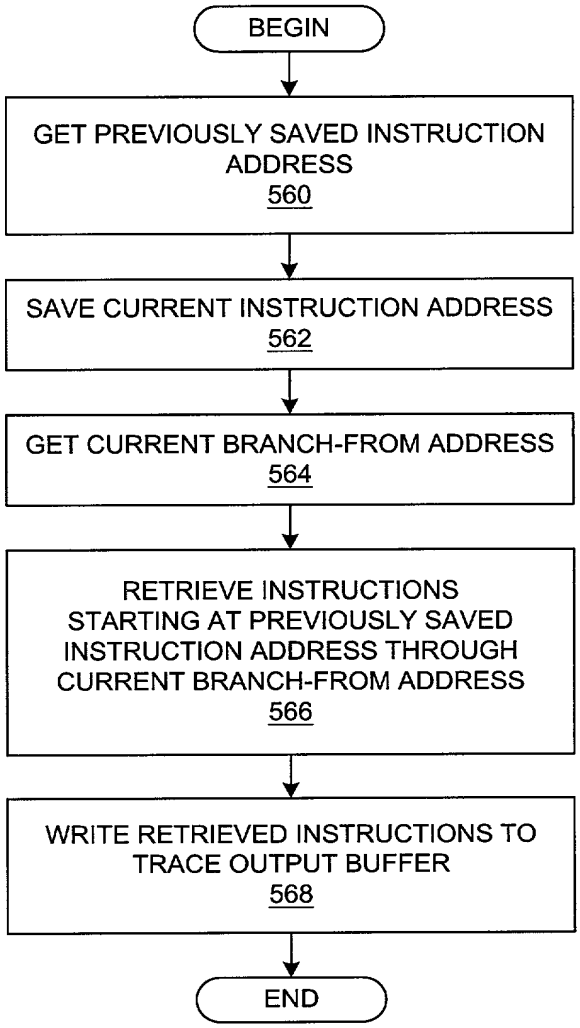
BEGIN
GET PREVIOUSLY SAVED INSTRUCTION ADDRESS
560
SAVE CURRENT INSTRUCTION ADDRESS
562
GET CURRENT BRANCH-FROM ADDRESS
564
RETRIEVE INSTRUCTIONS STARTING AT PREVIOUSLY SAVED INSTRUCTION ADDRESS THROUGH CURRENT BRANCH-FROM ADDRESS
566
WRITE RETRIEVED INSTRUCTIONS TO TRACE OUTPUT BUFFER
568
END

FIG. 5F